

#### PowerPoint® Lecture Slides

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CHAPTER

11

The Cardiovascular System

# The Heart: Cardiac Cycle

- Cardiac cycle
- https://www.youtube.com/watch?v=5tUWOF6wEnk

https://www.youtube.com/watch?v=KWrzdJY4G9Q

https://www.youtube.com/watch?v=xeMEAmwzJVw

https://www.youtube.com/watch?v=T8zkvdkzU7A

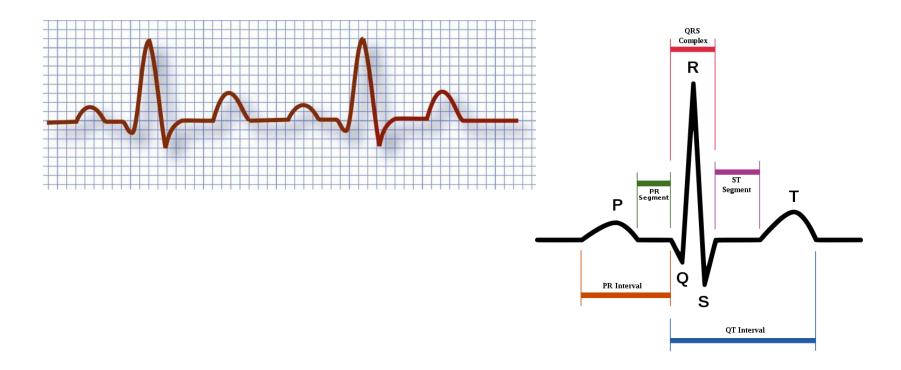
### **ECG** or **EKG**

 Atria contract and blood moves to the Ventricles

 Ventricles contract and blood moves to the Arteries

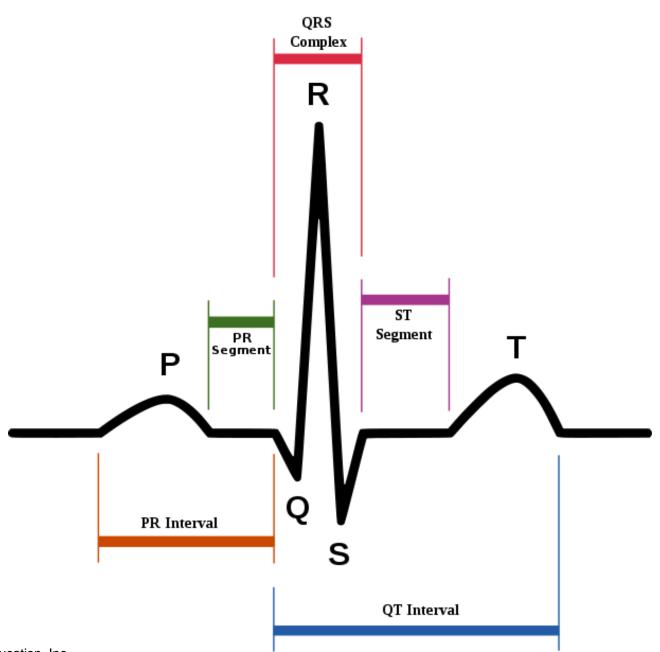
## **ECG** or **EKG**

- Electrocardiogram
  - Graphical recording of the electrical events occurring within the heart



#### **ECG** or **EKG**

- P Wave start of the electrical journey as he impulse spreads from the SA node downward from the atria through the AV node and to the ventricles – Atrial contraction (depolarization)
- QRS Complex Ventricular contraction (depolarization)
  - Atrial repolarization occurs at this time also
- T Wave Ventricular repolarization (recovery of ventricles to resting state)



- PR Interval: extends from the beginning of the P wave (the onset of atrial depolarization) until the beginning of the QRS complex (the onset of ventricular depolarization)
- PR Segment: Between Atrial and Ventricular depolarization
- ST Segment: Period of depolarized ventricles
- QT Interval: Time it takes for depolarization and repolarization of ventricles to occur

